	Application No.	Applicant(s)	
	10/663,802	MIYOSHI ET AL.	
Notice of Allowability	Examiner	Art Unit	
	BINH Q. TRAN	3748	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31	6 (OR REMAINS) CLOSED in this ap i) or other appropriate communication RIGHTS. This application is subject to	plication. If not included will be mailed in due course. THIS	'e
1. This communication is responsive to			
2. ☑ The allowed claim(s) is/are <u>1-17</u> .	•		
3. X The drawings filed on 17 September 2003 are accepted b	y the Examiner.		
<ul> <li>4.  Acknowledgment is made of a claim for foreign priority of a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> <li>2.  Certified copies of the priority documents have</li> <li>3.  Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul>	re been received. re been received in Application No		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONI THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements	
5. A SUBSTITUTE OATH OR DECLARATION must be subr INFORMAL PATENT APPLICATION (PTO-152) which give			
<ul> <li>6. CORRECTED DRAWINGS ( as "replacement sheets") mu <ul> <li>(a) including changes required by the Notice of Draftsper</li> <li>1) hereto or 2) to Paper No./Mail Date</li> <li>(b) including changes required by the attached Examiner Paper No./Mail Date</li> <li>Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in</li> </ul> </li> <li>7. DEPOSIT OF and/or INFORMATION about the deport attached Examiner's comment regarding REQUIREMENT</li> </ul>	rson's Patent Drawing Review (PTO-  r's Amendment / Comment or in the C 1.84(c)) should be written on the drawithe header according to 37 CFR 1.121( osit of BIOLOGICAL MATERIAL r	Office action of ngs in the front (not the back) of d).  must be submitted. Note the	
<ul> <li>Attachment(s)</li> <li>1. ☑ Notice of References Cited (PTO-892)</li> <li>2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/Paper No./Mail Date 09/28/2004</li> <li>4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ul>	6. Interview Summary Paper No./Mail Da 7. Examiner's Amendo	te ment/Comment ent of Reasons for Allowance	
		BINH Q. TRAN Primary Examiner Art Unit: 3748	

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## Allowable Subject Matter

The following is an examiner's statement of reasons for allowance: The prior art fails to disclose or render obvious the claimed combination including diagnosing means for diagnosing a degree of deterioration of respective capacities of the O2 storage material and the catalytic metal that are included in the NOx trap catalyst when the specified diagnosis condition is satisfied, the diagnosing means diagnosing a degree of deterioration of O2 storage capacity of the O2 storage material according to output values of the NOx sensor that are generated during a term from the beginning of the oxygen concentration lowering of the NOx release controlling means until a termination of the O2 release from the O2 storage material, the diagnosing means diagnosing a degree of deterioration of NOx reduction capacity of the catalytic metal according to an output value of the NOx sensor that is generated after the termination of the O2 release from the O2 storage material, wherein the NOx release controlling means is configured such that a speed of lowering oxygen concentration thereby when the specified diagnosis condition is satisfied is slower than that when the specified diagnosis condition is not satisfied.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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## Prior Art

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure and consists of five patents:

Taga et al. (Patent Number 6374596), Theis (Patent Number 6497092), Kako et al. (Patent Number 6481201), Takaku et al. (Patent Number 6383267), and Itou et al. (Patent Number 6167695) all discloses an exhaust gas purification for use with an internal combustion engine.

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Binh Tran whose telephone number is (703) 305-0245. The examiner can normally be reached on Monday-Friday from 8:30 a.m. to 5:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas E. Denion, can be reach on (703) 308-2623. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0861.

BT

September 28, 2004

Binh Q. Tran

Patent Examiner

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